

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/505,258	ELSHARAWY, BADAWY	
	Examiner Hsien-ming Lee	Art Unit 2823	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 5/23/2006.
2.  The allowed claim(s) is/are 1-21.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_

HSIEN-MING LEE  
PRIMARY EXAMINER

12/11/06

## **DETAILED ACTION**

### **Remarks**

1. Applicant's cancellation to claims 22-30 is acknowledged. Claims 1-21 are pending in the application.
2. The objection to drawings and double patenting objection to claims 22-30 have been withdrawn.

### ***Allowable Subject Matter***

3. Claims 1-21 are allowed.
4. The following is an examiner's statement of reasons for allowance:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in US 6,850,746. The improvement comprises a band pass filter comprising a transformer and a capacitor, wherein the transformer provides *high pass filtering* and the capacitor provides *low pass filtering*; the transformer comprises at least a pair of *metallic spirals* formed on a IC chip, wherein the metallic spirals are *co-planer* and have been inter-wound to form the transformer on the IC chip.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hsien-ming Lee whose telephone number is 571-272-1863. The examiner can normally be reached on Tuesday-Thursday (7:30 ~ 6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hsien-ming Lee  
Primary Examiner  
Art Unit 2823

Dec. 11, 2006

HSIEN-MING LEE  
PRIMARY EXAMINER

12/11/06

"Replacement Sheet"



Approved

Lee

12/11/06

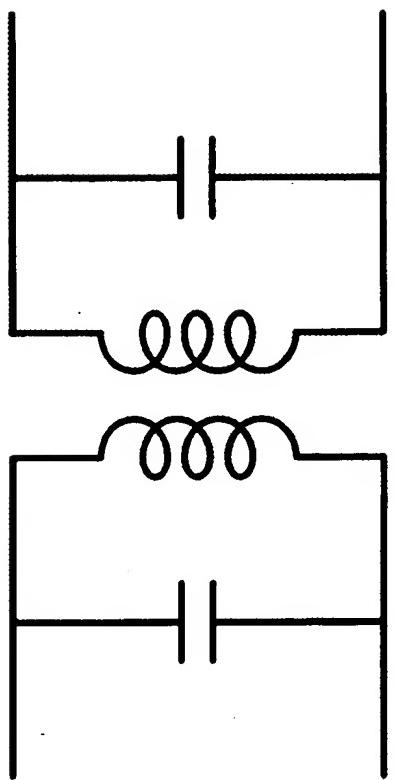


FIG.3



"Replacement Sheet"]

approved  
file  
12/1/06

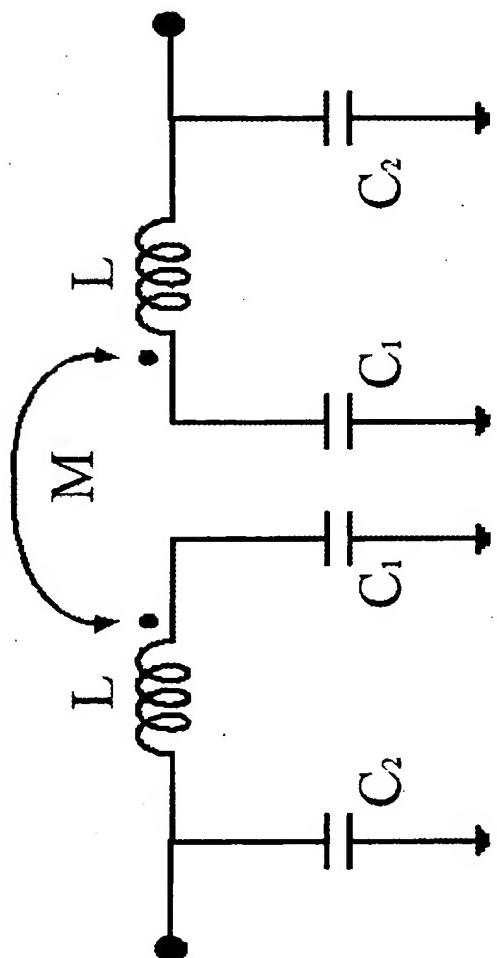


FIG.4



"Replacement Sheet"

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Lee  
12/11/06

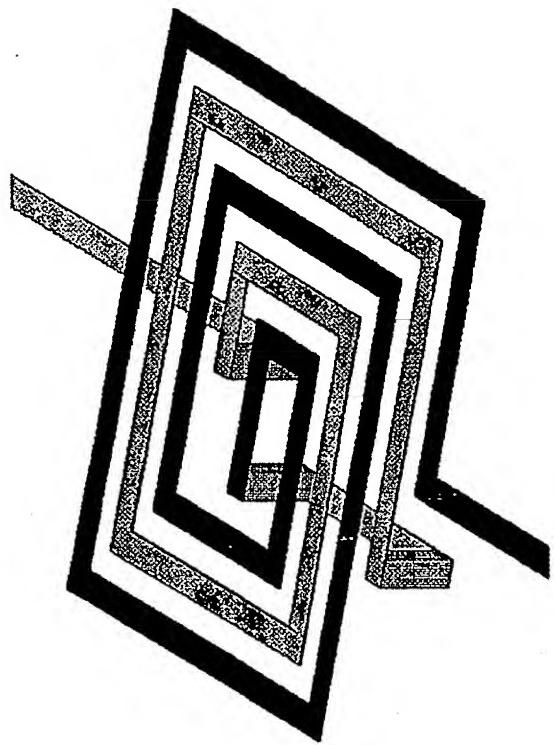


FIG.5

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"Replacement Sheet"

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Lee  
12/11/06

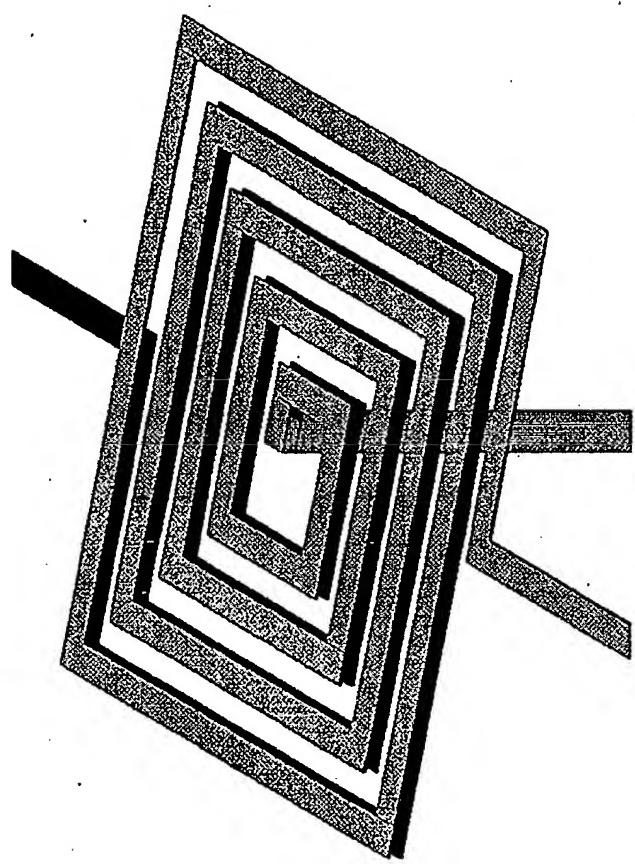


FIG.6

AVAILABLE COPY



"Replacement Sheet"

approved  
fee  
5/16

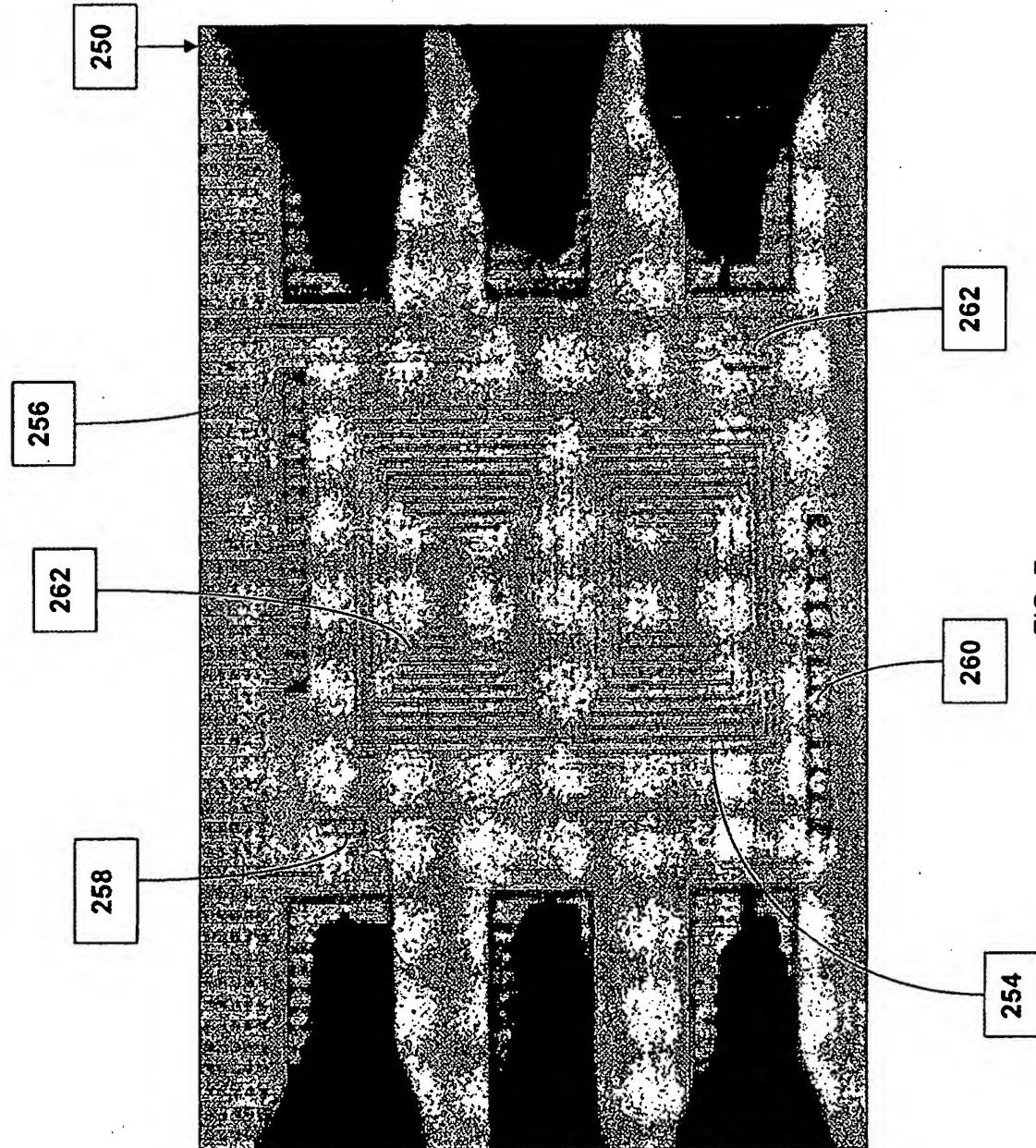


FIG. 7

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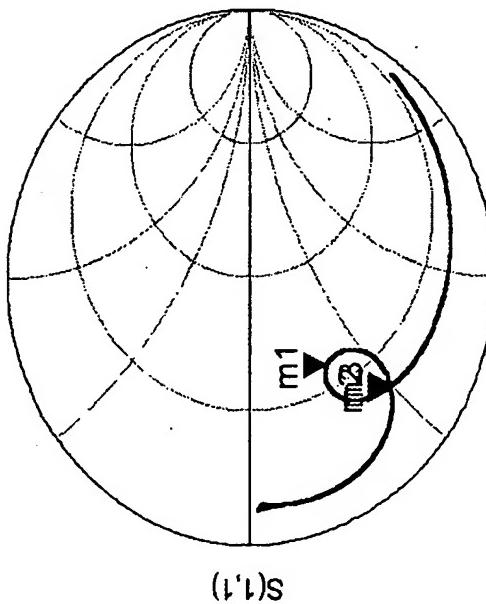
"Replacement Sheet"

m1  
freq=1.676GHz  
 $S(1,1)=0.455 / -136.279$   
impedance =  $Z_0 * (0.425 - j0.337)$

m3  
freq=1.064GHz  
 $S(1,1)=0.706 / -124.640$   
impedance =  $Z_0 * (0.218 - j0.505)$

m2  
freq=2.180GHz  
 $S(1,1)=0.711 / -125.915$   
impedance =  $Z_0 * (0.211 - j0.492)$

approved  
fee  
12/11/06



freq (200.0MHz to 5.000GHz)

FIG.8

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"Replacement Sheet"

approved  
fee  
12/11/06

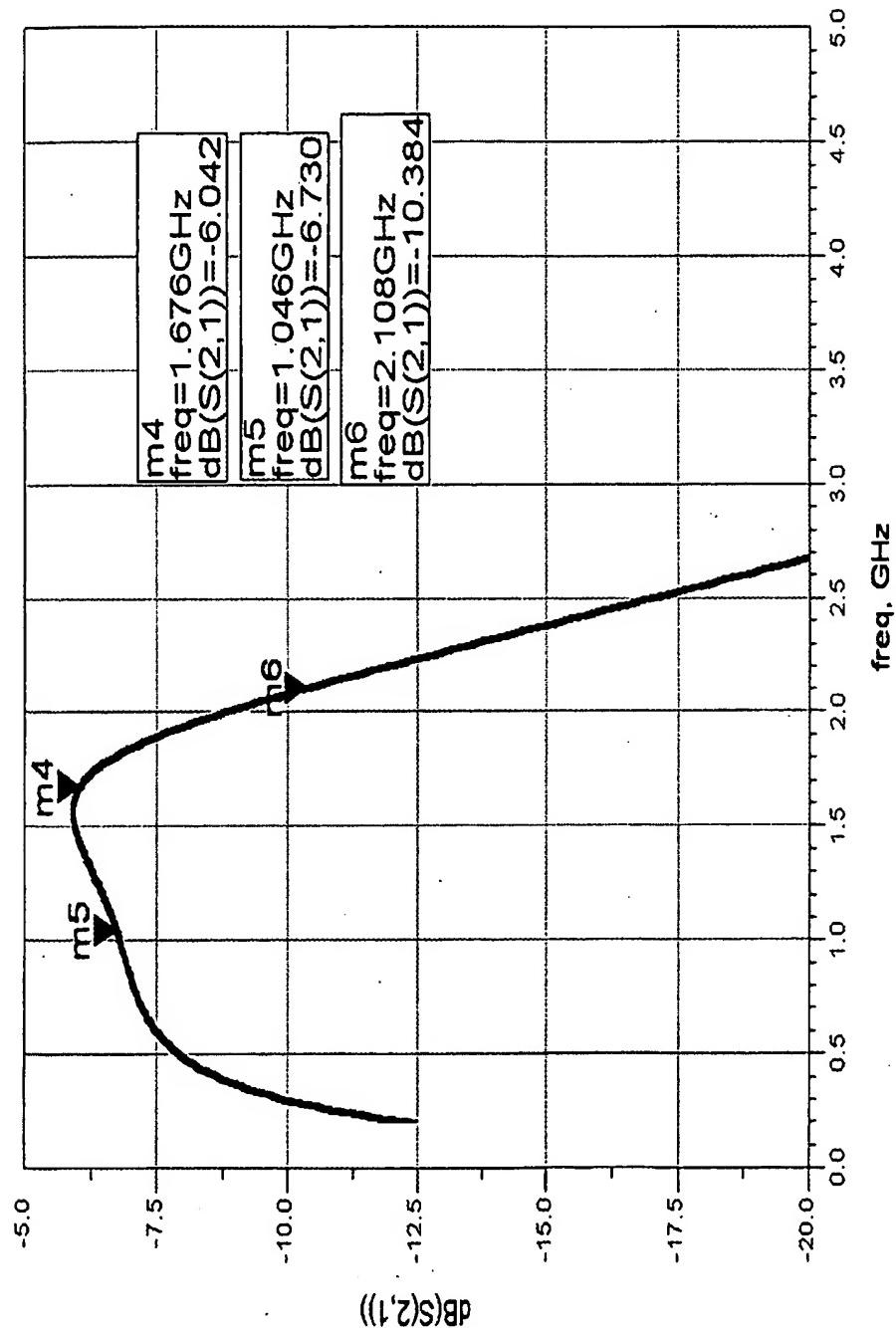
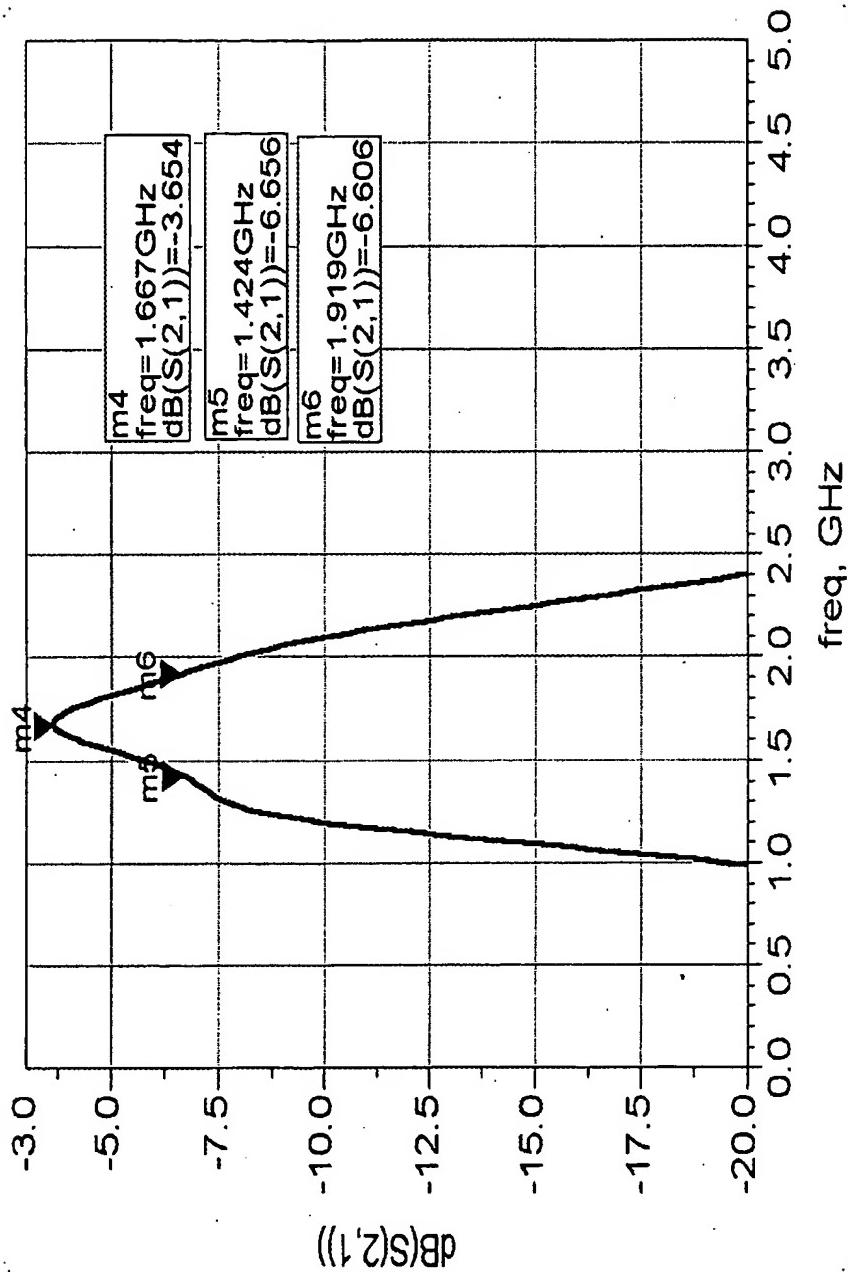


FIG. 9

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"Replacement Sheet"



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Lee  
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FIG.10